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DD/S&T-134-67

10 January 1967

MEMORANDUM FOR: See Distribution Below

SUBJECT: Strategic War Game Capability

1. As described in the attached, the Agency now has a working, computerized Strategic War Gaming capability. This War Game was developed for primary use as a mechanism to put quantitative values on information about the characteristics of Soviet Strategic Offensive Forces, but it has many other potential applications.

2. Use of the War Game by an Agency element is encouraged.

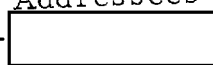
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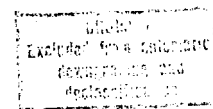
Attachment: Present Capabilities and  
Limitations of the Strategic  
War Game Model

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4 January 1967

MEMORANDUM FOR THE RECORD

SUBJECT: Present Capabilities and Limitations of the  
Strategic War Game Model

1. A Strategic War Game model developed by the [REDACTED]  
[REDACTED] has been implemented on the IBM  
360/65 computer and is now in the final testing stage.

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4. The model has the unique capability of evaluating the outcome of an exchange in the presence of imperfect information; thus, it is possible to evaluate the relative worth of information on one or more parameters or characteristics versus others.

-2-

5. At present, the model may be used to analyze a broad variety of questions, some being:

a. Damage received by the US and USSR under various assumed arsenals and scenarios. This is intended to estimate relative rather than absolute damage levels due to the assumptions made concerning the arsenals, target systems, fall out, etc.

b. Value of improvements to or replacement of current strategic weapon systems in terms of an improved capability to fight a war.

c. Relative importance of strategic weapon system characteristics.

d. Relative effectiveness of additional offensive forces and ballistic missile defenses.

e. Relative importance of improved intelligence information.

6. Work is currently in progress to extend the model into new areas. Some of these are:

a. Optimized force additions, offensive or defensive, required to overcome specific information gaps.

b. Addition of an area ABM defense model; area and local bomber defense models.

7. Documentation concerning the model may be procured through [ ] ext. [ ] Examples of case studies may be procured through the DD/S&T Registry.

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Scientific Applications Division,  
Office of Computer Services